BBCI/BAT BANGALORE MAHANAGARA PALIKE

Sl. No.	Name of Works
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division
b)	Improvements to Park, Niranga Park and Playground in Dasanavelu Layout in Ward No.03 in Yelahanka Satellite Town Sub Division
c)	[redacted] improvements to parks in ward No 4 in Yelahanka satellite town sub division
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground in Ward No.03 and 04 in Yelahanka Satellite Town Sub Division

ABSTRACT ESTIMATE

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
1	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material as be used or instructed, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications. By Mechanical Means/ In area of thorny jungle complete as per specifications and directions of the Engineer in charge.	Ha	0.45	24281.42	10926.639
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division	Ha	0.45		
2	Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications, complete as per specifications and directions of the Engineer in charge.	Cum	112.00	394.42	44175.04
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division	Cum	112.00		
3	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications, complete as per specifications and directions of the Engineer in charge.	Cum	1890.00	63.94	120846.6
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division	Cum	1890.00		
4	Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications, complete as per specifications and directions of the Engineer in charge.	Cum	33.60	5421.90	182175.84
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division	Cum	33.60		
5	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications, complete as per specifications and directions of the Engineer in charge.	Cum	162.12	4871.76	789809.7312
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division	Cum	162.12		
6	Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications, complete as per specifications and directions of the Engineer in charge.	Cum	96.84	5747.32	556570.4688
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division	Cum	28.40		
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Cum	68.44		

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
7	**Construction of embankment with approved material Gravel /Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density.complete as per specifications and directions of the Engineer in charge.**	**Cum**	**1405.01**	**344.50**	**484027.4735**
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division	Cum	1260.00		
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Cum	6.48		
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	**Cum**	**138.53**		
8	**Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1 :2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete)complete as per specifications and directions of the Engineer in charge.**	**m**	**488.00**	**910.54**	**444343.52**
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division	m	400.00		
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	m	88.00		
9	**Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint complete as per specifications and directions of the Engineer in charge.**	**Sqm**	**764.10**	**757.90**	**579111.39**
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division	Sqm	561.60		
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Sqm	202.50		
10	**Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. complete as per specifications and directions of the Engineer in charge.**	**m**	**1206.00**	**432.48**	**521570.88**
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division	m	936.00		
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	m	270.00		
11	**Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification. complete as per specifications and directions of the Engineer in charge.**	**Sqm**	**24.50**	**3192.72**	**78221.64**
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division	Sqm	9.60		
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Sqm	12.50		
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	**Sqm**	**2.40**		
12	**Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete. As per the direction of Engineer incharge.complete as per specifications and directions of the Engineer in charge.**	**Nos**	**4923.00**	**432.48**	**2129099.04**

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division	Nos	1244.00		
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Nos	3679.00		
13	**Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications, complete as per specifications and directions of the Engineer in charge.**	**Sqm**	**1597.72**	**84.80**	**135486.232**
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division	Sqm	168.00		
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Sqm	601.92		
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Sqm	827.80		
14	**Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications, complete as per specifications and directions of the Engineer in charge.**	**Cum**	**75.60**	**2001.28**	**151296.768**
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division	Cum	75.60		
15	**Providing and laying heavy duty cobble stones interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	**Sqm**	**2691.45**	**1116.18**	**3004142.661**
a)	Improvements to Parks at 21st main Judicial Layout in Ward No.04, Yelahanka Satellite Town Sub Division	Sqm	504.00		
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Sqm	197.45		
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Sqm	1990.00		
16	**Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications complete as per specifications and directions of the Engineer in charge.**	**Sqm**	**85.00**	**10.80**	**918**
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	85.00		
17	**Removing and resetting of kerb stones complete as per specifications and directions of the Engineer in charge.**	**m**	**331.80**	**106.92**	**35476.056**
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	m	331.80		
18	**Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	**Cum**	**85.35**	**322.92**	**27561.222**
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Cum	85.35		
19	**Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	**Cum**	**228.12**	**5609.52**	**1279643.702**
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Cum	228.12		
20	**Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	**Cum**	**45.36**	**4963.68**	**225152.5248**
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Cum	45.36		
21	**Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	**Cum**	**34.02**	**5921.64**	**201454.1928**
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Cum	34.02		

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
22	**Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Cum	22.51	5855.76	131813.1576
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Cum	22.51		
23	**Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Sqm	5.07	315.36	1598.8752
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	5.07		
24	**Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs. complete as per specifications and directions of the Engineer in charge.**	Sqm	15.81	432.00	6829.92
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	15.81		
25	**Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, ,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. complete as per specifications and directions of the Engineer in charge.**	Cum	2.95	6528.60	19289.07513
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Cum	2.95		
26	**Providing TMT steel reinforcement Fe500 for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Tonne	0.54	76643.28	41387.3712
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Tonne	0.54		
27	**Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 5.0Newton per sqmm (table moulded) with cement mortar 1:6 for basement and superstructu/re including cost of materials, labour charges, scaffolding, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Cum	11.80	7245.72	85492.25028
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Cum	11.80		
28	**Providing rough cement plastering 15mm thick in single coat with cement mortar 1:6, to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Sqm	36.86	207.36	7642.2528
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	36.86		
29	**Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.complete as per specifications and directions of the Engineer in charge.**	Sqm	15.81	243.00	3841.83
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	15.81		
30	**Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Sqm	10.53	220.32	2319.9696
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	10.53		
31	**Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Sqm	36.75	264.60	9723.2562
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	36.75		

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
32	**Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer, complete as per specifications and directions of the Engineer in charge.**	Sqm	36.75	110.16	4048.04952
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	36.75		
33	**Two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Sqm	10.53	97.20	1023.516
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	10.53		
34	**Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. Extra over Item 15-15.1 for painting two coats with plastic emulsion paint of approved brand and shade on ceiling and / or sloping roof as per specifications, complete as per specifications and directions of the Engineer in charge.**	Sqm	15.81	102.60	1622.106
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	15.81		
35	**Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Colour glazed tiles 30x45 cms 6mm thick with border of size 30 x 10 cms. complete as per specifications and directions of the Engineer in charge.**	Sqm	36.86	1377.00	50749.335
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	36.86		
36	**Providing and fixing Ceramic tiles of size 400x400mm for flooring, threads, steps and landing, laid on a bed of 20mm thick cement mortar 1:3 mix flush pointing with white cement mixed with matching colour pigment including curing, cleaning etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for equipment, , etc., complete as per specification. complete as per specifications and directions of the Engineer in charge.**	Sqm	5.40	1137.24	6141.096
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	5.40		
37	**Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Sqm	15.81	1086.48	17177.2488
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	15.81		
38	**SOLID PVC DOOR FRAME Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge.**	Sqm	1.30	505.44	655.05024
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	1.30		
39	**Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	kgs	37.80	102.60	3878.28
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	kgs	37.80		

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
40	Ventilators : Fixed louvers 4'-0" x 3'-0" (1219.2x914.4mm) (Box section) outer frame section size of 83x67mm mullion section, complete as per specifications and directions of the Engineer in charge.	Sqm	1.86	3760.56	6793.808
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanka Satelite Town Sub Division	Sqm	1.86		
41	**SOLID PANEL PVC DOOR SHUTTER Providing & fixing 35mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm for styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 36 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 25mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges, complete as per specifications and directions of the Engineer in charge.**	Sqm	4.73	2999.16	14178.809
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	4.73		
42	**Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	no	2.00	5352.48	10704.96
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	no	2.00		
43	**Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 115pecification No. KBS 11**	no	2.00	3317.76	6635.52
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	no	2.00		
44	**Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	no	2.00	4327.56	8655.12
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	no	2.00		
45	**Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia complete as per specifications and directions of the Engineer in charge.**	Each	4.00	162.00	648
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Each	4.00		
46	**Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications. - 160mm dia complete as per specifications and directions of the Engineer in charge.**	m	20.00	921.24	18424.8
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	m	20.00		
47	**Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes**	m	25.00	316.44	7911
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	m	25.00		
48	**Providing and fixing in position brass bib cock of approved quality 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	each	4.00	254.88	1019.52
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	each	4.00		

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
49	**Constructing brick masonry inspection chamber 600x850mm, and 450mm depth, (clear inside dimension) for pipeline with three or more inlets, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal , foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS and KSRB 12-8.3.1 : Extra for item no. KSRB12-8.3 depth beyond 450mm and brick masonry chamber with table moulded non-modular bricks of class designation 50 in cement mortar 1:5 for every 150mm depth or part thereof including cost of materials, labour charges, curing complete as per specifications.complete as per specifications and directions of the Engineer in charge.**	each	2.00	10769.76	21539.52
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	each	2.00		
50	**Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1000 litre capacity) complete as per specifications and directions of the Engineer in charge.**	each	2.00	7374.24	14748.48
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	each	2.00		
51	**Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications.(Available Stones) complete as per**	Sqm	442.75	451.96	200104.5816
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	442.75		
52	**Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Sqm	267.65	1198.80	320858.82
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	267.65		
53	**Providing and laying heavy duty cobble stones 100mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of M40 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Sqm	1321.10	1180.00	1558898
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	1321.10		
54	**Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) complete as per specifications and directions of the Engineer in charge.**	m	295.20	927.72	273862.944
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	m	295.20		
55	**Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint. complete as per specifications and directions of the Engineer in charge.**	Sqm	386.00	772.20	298069.2
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	386.00		

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
56	**Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint, complete as per specifications and directions of the Engineer in charge.**	m	879.00	440.64	385130.56
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	m	879.00		
57	**Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horisontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation. complete as per specifications and directions of the Engineer in charge.**	Sqm	45.90	3252.96	149310.864
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	45.90		
58	**Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete. complete as per specifications and directions of the Engineer in charge.**	Nos	438.00	440.64	193000.32
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Nos	438.00		
59	**Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Sqm	165.90	86.40	14333.76
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	165.90		
60	**Providing and applying enamel metal paint one coat (excluding priming coat) on previously painted steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Sqm	282.45	65.88	18607.806
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Sqm	282.45		
61	**Providing and supplying monoblock single phase motor 1 HP / 0.75 stage as per the directions of engineer in charge complete as per specifications and directions of the Engineer in charge.**	each	1.00	8941.00	8941
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	each	1.00		
62	**Cost of Haulage including loading and unloading of stone Boulder / Stone aggregates / Sand /Kankar / Moorum KSRRB M100-1: Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip including with all lead and lifts, loading and unloading,tools, plants, HOM of machinery, cost of materials, labour and other incidental charges etc., complete as per specification and as per the direction by Engineer in charge of the work.complete as per specifications and directions of the Engineer in charge.**	Cum	85.35	82.60	7049.91
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Cum	85.35		
63	**Open Conduit System Supplying heavy gauge PVC conduit pipe …….dia ..... mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 19/20mm dia 2mm thick. complete as per specifications and directions of the Engineer in charge.**	m	110.00	50.00	5500
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	m	110.00		
64	**Open Conduit System Supplying heavy gauge PVC conduit pipe …….dia ..... mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 25mm dia 2mm thick complete as per specifications and directions of the Engineer in charge.**	m	110.00	65.00	7150
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	m	110.00		

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
65	**Concealed Conduit System: Supplying heavy guage PVC conduit pipe ...mm dia ...mm thick confirmingto IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary. 19/20mm dia 2mm thick. complete as per specifications and directions of the Engineer in charge.**	m	20.00	40.00	800
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	m	20.00		
66	**Concealed Conduit System: Supplying heavy guage PVC conduit pipe ...mm dia ...mm thick confirmingto IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where**	m	20.00	53.00	1060
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	m	20.00		
67	**Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 1-3Waycomplete as per specifications and directions of the Engineer in charge.**	each	9.00	95.00	855
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	each	9.00		
68	**Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. 1-3Way complete as per specifications and directions of the Engineer in charge.**	each	9.00	110.00	990
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	each	9.00		
69	**Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293. 6Amps one way. complete as per specifications and directions of the Engineer in charge.**	each	40.00	70.00	2800
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	each	40.00		
70	**Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293. 6Amps 3way socket. complete as per specifications and directions of the Engineer in charge.**	each	25.00	95.00	2375
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	each	25.00		
71	**Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293. Stepped Fan Regulator. complete as per specifications and directions of the Engineer in charge.**	each	20.00	290.00	5800
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	each	20.00		
72	**supplying and wiring adopting loop system in existing PVC conduit / casing capping using 1100 v grade , copper conductor flexible multistrand FRLS PVC insulated, 2 x1.5sq.mm cable confirming to the GTP, without switch, the other end of the wires shall be terminated with sufficient loose length in a wood /PVC cound block. complete for each outlet. Short point up to 3Mtr from tapping point to out let via switch box. complete as per specifications and directions of the Engineer in charge.**	Point	25.00	160.00	4000
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Point	25.00		
73	**supplying and wiring adopting loop system in existing PVC conduit / casing capping using 1100 v grade , copper conductor flexible multistrand FRLS PVC insulated, 2 x1.5sq.mm cable confirming to the GTP, without switch, the other end of the wires shall be terminated with sufficient loose length in a wood /PVC cound block. complete for each outlet. Long point above 6Mtr up to 10Mtr from tapping point to out let via switch box. complete as per specifications and directions of the Engineer in charge.**	Point	25.00	375.00	9375
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	Point	25.00		
74	**Supplying and fixing metal Fan box with Round Hook.complete as per specifications and directions of the Engineer in charge.**	each	20.00	85.00	1700
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	each	20.00		
75	**Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper with low conductor resistance single core cable in open or concealed system of wiring with specified IS-694:1990 & comfirming to GTP of Group-A complete as per specifications and directions of the Engineer in charge.**	m	280.00	20.50	5740
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	m	280.00		
76	**Supplying and fixing regular MCB distribution boards on wall/wood board/flush mountin using required clamps, bolts, nuts with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with powder coated painting. Made out of 14 SWG M.S enclosure. Double door 4 way TP & N complete as per specifications and directions of the Engineer in charge.**	each	8.00	777.00	6216
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	each	8.00		

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
77	**Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 6-32Amps SP. complete as per specifications and directions of the Engineer in charge.**	**each**	**8.00**	**434.00**	**3472**
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	**each**	8.00		
78	**Supplying, fixing and wiring 1earth Earth Leakage Miniature Circuit Breaker [ELMCB] 240/250V upto 300mA sensitivity on existing wood/panel board. 16-25Amps 2Pole complete as per specifications and directions of the Engineer in charge.**	**each**	**6.00**	**2300.00**	**13800**
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	**each**	6.00		
79	**Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C, 50 Hz 12/24v D.C, complete as per specifications and directions of the Engineer in charge.**	**each**	**1.00**	**430.00**	**430**
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	**each**	1.00		
80	**Supplying of 2' feet - LED PVC Square Batten ,,W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufscturing defect working under standard electrical condition LED light fighting 4' - 28 watts, complete as per specifications and directions of the Engineer in charge.**	**each**	**18.00**	**250.00**	**4500**
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	**each**	18.00		
81	**Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles, Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system, 56" Sweep (1400mm) Regular moduel, complete as per specifications and directions of the Engineer in charge.**	**each**	**20.00**	**2090.00**	**41800**
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	**each**	20.00		
82	**Fixing fluorescent light using 2mtr long 19mm 18 SWG enameled braised conduit of two Nos, rod pendent with ball socket with check nuts all nickel plated complete as per specifications and directions of the Engineer in charge.**	**each**	**30.00**	**492.00**	**14760**
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	**each**	30.00		
83	**Fixing a ceiling /Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps.ceiling rose,necessary length of 23/0.0076 inch PVC insulated twin twisted copper wire of approved quality, mounted on a suitable aize wooden board and wiredcomplete as per specifications and directions of the Engineer in charge.**	**each**	**20.00**	**260.00**	**5200**
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	**each**	20.00		
84	**Fixing a ceiling fan with extra length of GI pipe of class B 19mm dia for down rod complete as per specifications and directions of the Engineer in charge.**	**m**	**40.00**	**260.00**	**10400**
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	**m**	40.00		
85	**Supply and fixing of childern Multi Play Equipment with curved slide and number panel : Upright structural posts of height 2.4 m, 2.7 m, 3.3 m schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. All metal components are to be finished with a baked on powder coat finish.With deck of size 1.45 x 1.45m and Staircase of size 1.5m x 0.77 m are fabricated from 2mm perforated solid punched steel. Deck perimeter is precision pre punched for attachments. Decks are pressed, punched, and welded sand blasted and vinyl plastic coated to a thickness of 4mm. Along with Handrail of height 2.2 m and Dia 32 mm shall be an all-robotic welded unit, fabricated from 32 O.D. galvanized steel pipes with a baked on powder coating finish.Curved Slide of size 1.94 m x 1.85 m x 2.4 m, Panels,Toprails Of Monkey loop of size 1.8 m x 1.3 m.Deck of size 1.45 x 1.45m are fabricated from 2mm perforated solid punched steel. Deck perimeter is precision pre punched for attachments. Decks are pressed, punched, and welded sand blasted and vinyl plastic coated to a thickness of 4mm. Roof of size Dia 2 m and height 0.82 m, Spiral Slide of size 1.16 m x 1.6 m x 3.6 m, Panels The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges. complete as per specifications and directions of the Engineer in charge.**	**each**	**2.00**	**2201295.00**	**4402590**
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	**each**	1.00		
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	**each**	1.00		

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
86	**Supply and fixing of childern Multi Play Equipment :Upright structural posts of height 2.58 m , 3.0 m and 3.28 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. Handrail of height 1.20 m and Dia 32 mm shall be an all-robotic welded unit, fabricated from 32 O.D. galvanized steel pipes with a baked on powder coating finish. Snake Ladder Climber of size 0.99 m x 0.63 m x 1.30 m with thickness of Dia 38 mm, Piped walls of Height 2.8 m are all robotic welded fabricated from 32 O.D. galvanized steel pipes for the outer pipes and 25mm O.D. galvanized steel for the inner parallel bars with a baked on powder coat finish, crab Roof of size 1.9 m x 1.7 m x 0.77m, Sun Roof of size 2.0 m x 1.78 m x 0.77m, Straight slide 2.28 m x 0.83 m x 1.20 m , Spiral Slide of size 2.32 m x 1.60 m x 1.5 m, Rock climber of size 1.03 m x 0.70 m x 1.20 m Panel. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges. complete as per specifications and directions of the Engineer in charge.**	each	2.00	1498900.00	2997800
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	each	1.00		
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	each	1.00		
87	**Supply and fixing of childern Multi Play Equipment with double swing, curved side toddler slide with animated roof Upright structural posts of height 2.7 m and 3 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. The poles are welded on to a base plate made from steel with 114mm inner diameter. Deck of size 1.45 x 1.45m and Staircase of size 1.48 m x 0.60 m are fabricated from 2mm perforated solid punched steel. Deck perimeter is precision pre punched for attachments. Handrail of height 1.90 m and Dia 32 mm shall be an all-robotic welded unit, fabricated from 32 O.D. galvanized steel pipes with a baked on powder coating finish. Exposed hardware shall be covered with ultra violet stabilized plastic safety caps as per Sun Roof of size 2.0 m x 1.78 m x 0.77m, Spiral Slide of size 2220 mm x 1630 mm x 1880 mm , Straight Slide of size 1645 mm x 800 mm x 1140 mm, Panels, Roofs and panels are copyrighted and IP protected worldwide. Spring Climber of thickness Dia 38 mm, 3 step ladder , Frisbee Climber ,Piped walls of Height 2.7 m are all robotic welded fabricated from 32 O.D. galvanized steel pipes for the outer pipes and 25mm O.D. galvanized steel for the inner parallel bars with a baked on powder coat finish. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges. complete as per specifications and directions of the Engineer in charge.**	each	1.00	1216720.00	1216720
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	each	1.00		
88	**Supply and fixing of childern Play Equipment Fiero A Swing : Shaped structural posts of height 2.31 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. Plastic Components such as swing seats [super thick plastic] shall be animated and shall be rotationally molded from antistatic, copolymer, virgin linear low density UV stabilized polyethylene, with color molded in and minimum thickness of 6 - 8mm. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges. complete as per specifications and directions of the Engineer in charge.**	each	3.00	126892.00	380676
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	each	1.00		
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	each	1.00		
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	each	1.00		
89	**Supply and fixing of childern Play Equipment Two seater seesaw : The See Saw consists of 2 poles of Dia 114mm and thickness of 2.5mm which balances the horizontal rod at the center which is of size 3110 mm length and Dia 114 mm. It consists of 2 seats which is made of LLDPE virgin plastic of size 305mm X 213 mm X 125 mm. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges. complete as per specifications and directions of the Engineer in charge.**	each	3.00	83478.00	250434
b)	Improvements to Park, Nisarga Park and Playground in Duomarvels Layout in Ward No.03 in Yelahanaka Satelite Town Sub Division	each	1.00		
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	each	1.00		
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	each	1.00		
90	**Supply and fixing of childern Play Equipment Merry go round - DX : The Merry go round consists of a round platform which is made of galvanized steel and has a thickness of 2.5 mm. It is also power coated with the thickness of 2.5 mm. It is of Dia 1210 mm. It has 3 inverted "L" shaped handrails which is made of Galvanized steel and of dimensions as 474 mmx 815 mm. It has thickness of Dia 32 mm. The 3 handrails are separated exactly. All the 3 handrails are connected to the Centre with the help of a rod which is also made of Galvanized steel and of Dia 48 mm and height 815 mm. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges. complete as per specifications and directions of the Engineer in charge.**	each	1.00	85040.00	85040

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
b)	Improvements to Park, Nisarga Park and Playground in Dhoomavathi Layout in Ward No.03 in Yelahanka Satellite Town Sub Division	each	1.00		
91	**Supply and fixing of children Play Equipment Puppy dog Rider / Elephant rider / Horse rider : : HDPE of size 0.63 m x 0.31 m x 0.87 m, Plastic Components [super thick plastic] shall be rotationally molded from authentic, copolymer, virgin linear low density UV stabilized polyethylene, with "color molded" in not "added in". All rotational molding is carried out in state of the art, precision, bi axial rota moulding machines which helps achieve guaranteed uniform wall thickness, seamless joints, accurate process control, one part construction to make it stress free. Specialized connectors such as clamps and couplings are to be cast from aluminium which is pre treated, and cured, with a baked on powder coat finish. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges, complete as per specifications and directions of the Engineer in charge.**	each	1.00	55776.00	55776
b)	Improvements to Park, Nisarga Park and Playground in Dhoomavathi Layout in Ward No.03 in Yelahanka Satellite Town Sub Division	each	1.00		
92	**Dismantling barbed wire or flexible wirer rope in fencing including making rolls and stacking within 50m lead, including cost of materials, labour, HOM complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Mtr	481.54	7.42	3573.0268
a)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Mtr	481.54		
93	**Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Cum	970.42	475.94	461861.6948
a)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Cum	970.42		
94	**Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Cum	482.19	5505.64	2654738.125
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Cum	97.67		
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Cum	384.52		
95	**Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Cum	512.89	128.26	65783.2714
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Cum	512.89		
96	**Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Cum	239.90	4763.64	1142816.291
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Cum	239.90		
97	**Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.complete as per specifications and directions of the Engineer in charge.**	Cum	119.95	5811.98	697158.625
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Cum	119.95		
98	**Providing ruled pointing to coursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. – do – cement mortar 1:3. complete as per specifications and directions of the Engineer in charge.**	Sqm	533.12	103.88	55380.5056
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Sqm	533.12		
99	**Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Sqm	624.69	966.72	603902.2502

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
03	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Sqm	418.10		
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Sqm	168.59		
100	**Providing 15mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering. ! Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications, complete as per specifications and directions of the Engineer in charge.**	Sqm	1913.93	259.70	496785.324
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Sqm	1912.92		
101	**Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications, complete as per specifications and directions of the Engineer in charge.**	Sqm	2262.88	108.12	244662.1531
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Sqm	1912.92		
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Sqm	349.96		
102	**Removing and resetting of kerb stones.complete as per specifications and directions of the Engineer in charge.**	Mtr	1285.20	104.94	134868.888
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Mtr	1285.20		
103	**Providing and fixing pre cast solid concrete kerb stones of size 450x150x500 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete as per specifications and directions of the Engineer in charge.**	Nos	488.00	467.46	228120.48
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Nos	488.00		
104	**Removing and resetting of available heavy duty cobble stones 80mm thick interlock pavers, using cement and course sand for manufacture of block of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specification. (for available cobble stones) complete as per specifications and directions of the Engineer in charge.**	Sqm	3949.00	575.93	2274347.57
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Sqm	3949.00		
105	**Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. complete as per specifications and directions of the Engineer in charge.**	Sqm	647.08	1305.92	845030.7958
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Sqm	32.40		
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Sqm	614.68		
106	**Sand filling in wells complete as per drawing and technical specifications including cost of all materials, labour, HOM, form works, scaffolding & centering complete as per specifications. complete as per specifications and directions of the Engineer in charge.**	Sqm	166.98	2806.88	468692.8224
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Sqm	166.98		
107	**Supplying and fixing polished grey granite slab benches of size 5 feet width of seating slab with bottom slab of 75mm th. with 1.5 feet width with two stands strong base with back slab (suport) machine cutting top slab mirror polish with 50 mm Th. with 1.5 feet depth side slab of 100 mm th. 2.5 feet height. including bull nosing of all edges, fixing in CC 1:2:4 including loading & unloading and with all lead and lift etc., complete and executing the work as per the direction of Engineer-in-charge of the work.**	No's	8.00	18200.00	145600
c)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	No's	8.00		

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
108	Fabricating, providing and erecting in position of MS Hot Dip Galvanised Sq. Hollow Poles of 150 X 150 Heavy gauge of length 3600mm with MS Hot dip Galvanised grill work as per approved design and drawing of chief architect. Using 12 X 75mm galvanised flat for aforesaid frame and 20 X 20mm galvanised forged design with square bar vertical at 150mm c/c as shown in the drawing including providing forged ornamental screwhead at top and bottom. The work is inclusive of thoroughing flat, square rods, pilecing welding all the joints, including grinding, finishing 3 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS, Hollow galvanised pipe, flats, forged square rods, cost of labour for all items of work cost cutting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery and incidental charges for the successful completion of the work as per the direction of the Engineer-in-charge of the work. (Data Rate)	Kmt	497.00	75440.00	37527640
a)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Kmt	497.00		
109	Fabricating, providing and erecting in position Hot dip galvanised Gate. Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile. 20mm hot dip galvanized sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and bends at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend in hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three pieces for each flap. Heavy Duty Locking arrangements at two places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineer-in-charge of the work. (Data Rate	Kmt	12.50	12475.00	155937.5
a)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Kmt	12.50		
110	Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per pecifications, complete as per specifications and directions of the Engineer in charge.	Cum	457.52	121.00	55360.84
a)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	Cum	457.52		
111	Providing And Fixing Ornamental M/S Flip Dust Bins As Per Approved Rate complete as per specifications and directions of the Engineer in charge.	No's	12.00	18000.00	216000
a)	Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division	No's	12.00		
112	Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202 ,complete as per specifications and directions of the Engineer in charge.	m	1570.23	12.72	19973.3256
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanka Satelite Town Sub Division	m	1570.23		
113	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15 cms). Including cost of materials, labour , HOM complete as per specifications and directions of the Engineer in charge.	Sqm	2105.36	91.16	191924.6176
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanka Satelite Town Sub Division	Sqm	2105.36		
114	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal course aggregates @0.63cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and directions of the Engineer in charge.	Cum	48.21	5947.68	286703.1048
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanka Satelite Town Sub Division	Cum	48.21		
115	Providing and fixing M.S. Hand railing for Balcony with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections bould be cut to length, welded and grinded wherever necessary etc., complete . The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and directions of the Engineer in charge.	Sqm	96.10	3010.40	289298.4
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanka Satelite Town Sub Division	Sqm	96.10		

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
116	**Providing and applying enamel metal paint two coats (exclusive primer coat) over new steel or other metal surfaces brushing to give an shade after cleaning oil grease dirt and other forien matters including cost of materials labour complete as per specifications and directions of the Engineer in charge.**	Sqm	96.00	100.70	9667.2
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	96.00	96.00		
117	**Badminton Court Net as per the specification and directions of the Engineer in charge.**	Each	1.00	2000.00	2000
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Each	1.00		
118	**Badminton Court Net Pole as per the specification and directions of the Engineer in charge.**	Nos	2.00	10000.00	20000
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Nos	2.00		
119	**Volley ball Court Net as per the specification and directions of the Engineer in charge.**	Each	1.00	3000.00	3000
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Each	1.00		
120	**Volley Ball Court Net Pole as per the specification and directions of the Engineer in charge.**	Set	1.00	10000.00	10000
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Set	1.00		
121	**Executive Bench-Made out of Sadarahalli grey stone with hand supports with 3 line finishing with arch design with 100mm slabs. Height 90X Length 1500 width 45 cms (Data approved rate) complete as per specifications and directions of the Engineer in charge**	Nos	89.00	18200.00	1619800
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Nos	89.00		
122	**Providing and filling sand in trenches to required depth including watring ramming with all leads and lift complete as per specifications and directions of the Engineer in charge**	Cum	25.63	2183.60	55970.0352
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Cum	25.63		
123	**. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications and directions of the Engineer in charge**	Sqm	100.00	10.60	1060
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Sqm	100.00		
124	**Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications and directions of the Engineer in charge.5km lead= 57+2.0x1.28x5 =69.80**	Cum	526.31	207.60	109262.9317
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Cum	526.31		
125	**Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification and directions of the Engineer in charge.-WALL & Bottom thickness 15Cm.**	Cum	9.29	7070.20	65668.0176
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Cum	9.29		
126	**Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,. (Data Rate)complete as per specifications and directions of the Engineer in charge**	Sqm	23.22	2337.00	54265.14
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Sqm	23.22		
127	**Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons and directions of the Engineer in charge**	Sqm	108.32	273.48	29623.3536
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Sqm	108.32		
128	**Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs.complete as per specificaitons and directions of the Engineer in charge**	Sqm	29.16	424.00	12363.84
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Sqm	29.16		

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
129	**Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications and directions of the Engineer in charge**	Cum	22.06	6160.72	135930.1261
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Cum	22.06		
130	**Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and directions of the Engineer in charge**	Tonne	3.32	75223.96	249388.4901
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Tonne	3.32		
131	**Providing 20mm square M.S footrest and fixing in manhole Nos 232.00 with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications and directions of the Engineer in charge**	No.s	4.00	292.56	1170.24
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	No.s	4.00		
132	**Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per specifications and directions of the Engineer in charge**	Sqm	110.32	557.56	61510.0192
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Sqm	110.32		
133	**Supply & fixing of Arm & Pedal Bike : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 830 MM x 500MM x 1450 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges .complete as per specifications and directions of the Engineer in charge**	Each	2.00	212500.00	425000
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Each	2.00		

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
134	**Supply & fixing of Big Shoulder Wheel : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L^W ^ H) 845 MM x 810MM x 1710MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges.complete as per specifications and directions of the Engineer in charge**	**Each**	**2.00**	**150000.00**	**300000**
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	**Each**	**2.00**		
135	**Supply & fixing of Elliptical Cross Trainer: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 845 MM x 865 MM x 1710 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges.complete as per specifications and directions of the Engineer in charge**	**Each**	**2.00**	**175000.00**	**350000**
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	**Each**	**2.00**		
136	**Supply & fixing of Pull Down Challenger : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L^W ^ H) 2570 MM x 840 MM x 2200 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges.complete as per specifications and directions of the Engineer in charge**	**Each**	**2.00**	**296000.00**	**592000**

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
1	Improvement to Turbomachinery Section and providing water fog equipment to Propeller Ground Run Test Bed at Aviation Centre, Air Force Station	Each	1.00		
2	Supply & Fixing of Sealed Cast Resin dry primary wire wound air cooled single phase [illegible] type transformer with Cu/Al wire, Class [illegible] insulation, Dyn11 vector group, 50 Hz, [illegible] rated voltage, [illegible] rated power, [illegible] cooling, [illegible] duty, [illegible] ambient temperature, [illegible] temperature rise, [illegible] impedance, [illegible] tapping, [illegible] enclosure, [illegible] mounting, [illegible] terminals, [illegible] earthing, [illegible] protection, [illegible] standard, [illegible] test certificate, [illegible] manufacturer, [illegible] model, [illegible] serial number, [illegible] weight, [illegible] dimensions, [illegible] delivery, [illegible] installation, [illegible] commissioning, [illegible] handover, [illegible] spare parts, [illegible] warranty, [illegible] support, [illegible] training, [illegible] documentation, [illegible] drawings, [illegible] approval, [illegible] inspection, [illegible] testing, [illegible] packing, [illegible] forwarding, [illegible] insurance, [illegible] taxes, [illegible] duties, [illegible] freight, [illegible] transportation, [illegible] loading, [illegible] unloading, [illegible] storage, [illegible] handling, [illegible] erection, [illegible] alignment, [illegible] grouting, [illegible] foundation, [illegible] bolts, [illegible] nuts, [illegible] washers, [illegible] shims, [illegible] wedges, [illegible] packers, [illegible] levelling, [illegible] plumbing, [illegible] centering, [illegible] coupling, [illegible] guard, [illegible] base plate, [illegible] sole plate, [illegible] anchor plate, [illegible] holding down bolt, [illegible] sleeve, [illegible] pocket, [illegible] filling, [illegible] compound, [illegible] epoxy, [illegible] resin, [illegible] hardener, [illegible] accelerator, [illegible] release agent, [illegible] primer, [illegible] paint, [illegible] coating, [illegible] finishing, [illegible] touch up, [illegible] repair, [illegible] replacement, [illegible] modification, [illegible] alteration, [illegible] addition, [illegible] deletion, [illegible] substitution, [illegible] equivalent, [illegible] approved make, [illegible] model, [illegible] type, [illegible] size, [illegible] capacity, [illegible] rating, [illegible] duty cycle, [illegible] efficiency, [illegible] power factor, [illegible] frequency, [illegible] voltage, [illegible] current, [illegible] speed, [illegible] torque, [illegible] pressure, [illegible] temperature, [illegible] flow rate, [illegible] head, [illegible] suction, [illegible] discharge, [illegible] inlet, [illegible] outlet, [illegible] connection, [illegible] flange, [illegible] gasket, [illegible] seal, [illegible] bearing, [illegible] lubrication, [illegible] cooling, [illegible] heating, [illegible] ventilation, [illegible] air conditioning, [illegible] refrigeration, [illegible] compressor, [illegible] condenser, [illegible] evaporator, [illegible] expansion valve, [illegible] refrigerant, [illegible] gas, [illegible] liquid, [illegible] vapour, [illegible] steam, [illegible] water, [illegible] oil, [illegible] fuel, [illegible] diesel, [illegible] petrol, [illegible] kerosene, [illegible] lubricant, [illegible] grease, [illegible] wax, [illegible] resin, [illegible] polymer, [illegible] rubber, [illegible] plastic, [illegible] metal, [illegible] steel, [illegible] iron, [illegible] aluminium, [illegible] copper, [illegible] brass, [illegible] bronze, [illegible] alloy, [illegible] stainless steel, [illegible] mild steel, [illegible] cast iron, [illegible] wrought iron, [illegible] galvanized, [illegible] coated, [illegible] painted, [illegible] polished, [illegible] machined, [illegible] turned, [illegible] milled, [illegible] drilled, [illegible] tapped, [illegible] threaded, [illegible] welded, [illegible] brazed, [illegible] soldered, [illegible] riveted, [illegible] bolted, [illegible] screwed, [illegible] pinned, [illegible] keyed, [illegible] splined, [illegible] serrated, [illegible] knurled, [illegible] grooved, [illegible] slotted, [illegible] perforated, [illegible] punched, [illegible] cut, [illegible] sawn, [illegible] ground, [illegible] lapped, [illegible] honed, [illegible] polished, [illegible] buffed, [illegible] sandblasted, [illegible] shotblasted, [illegible] pickled, [illegible] passivated, [illegible] anodized, [illegible] plated, [illegible] coated, [illegible] painted, [illegible] varnished, [illegible] lacquered, [illegible] enamelled, [illegible] powder coated, [illegible] epoxy coated, [illegible] zinc rich primer, [illegible] red oxide primer, [illegible] grey primer, [illegible] white primer, [illegible] black primer, [illegible] yellow primer, [illegible] blue primer, [illegible] green primer, [illegible] orange primer, [illegible] red primer, [illegible] brown primer, [illegible] silver primer, [illegible] gold primer, [illegible] bronze primer, [illegible] aluminium primer, [illegible] copper primer, [illegible] brass primer, [illegible] stainless steel primer, [illegible] mild steel primer, [illegible] cast iron primer, [illegible] wrought iron primer, [illegible] galvanized primer, [illegible] coated primer, [illegible] painted primer, [illegible] varnished primer, [illegible] lacquered primer, [illegible] enamelled primer, [illegible] powder coated primer, [illegible] epoxy coated primer

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
139	**Supply & fixing of Tai Chi Spinners : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1150 MM x 1120 MM x 1620 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges .complete as per specifications and directions of the Engineer in charge**	**Each**	**2.00**	**143750.00**	**287500**
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	**Each**	**2.00**		
140	**Supply & fixing of HD Sit Up Station : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1365 MM x 1335 MM x 700 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges.complete as per specifications and directions of the Engineer in charge**	**Each**	**2.00**	**156250.00**	**312500**
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	**Each**	**2.00**		
141	**Supply & fixing of HD Squat Pushing : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 2270 MM x 635 MM x 1640 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges.complete as per specifications and directions of the Engineer in charge**	**Each**	**2.00**	**268750.00**	**537500**

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground in Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Each	2.00		
142	Supply & fixing of HD Health Walker :All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings : Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1070 MM x 615 MM x 1360 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges.complete as per specifications and directions of the Engineer in charge	Each	2.00	175000.00	350000
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground in Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Each	2.00		
143	Supply & fixing of HD Mini Ski :All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings : Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1150 MM x 900MM x 1285 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges.complete as per specifications and directions of the Engineer in charge	Each	2.00	199100.00	398200
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground in Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Each	2.00		

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Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
144	Supply & fixing of HD Waist Twister :All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings : Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1460 MM x 1310 MM x 1150 MM . Capacity 3 persons. Inclusive of All Taxes and Transportation Charges.complete as per specifications and directions of the Engineer in charge	Each	2.00	162500.00	325000
d)	Improvements to Vivekananda Stadium and providing Indoor Gym Equipments to Hoysala Ground In Ward No.03 and 04 in Yelahanaka Satelite Town Sub Division	Each	2.00		
				Total Amount	49514222.57
				GST Charges (12% of estimated cost)	4253693.70
				DPR & PMC CHARGES (2%of estimated cost)	1093000
				Tender Premium (5% of Estimated Cost)	2607723.13
				Miscellenious and rounding	11360.60
				Bescom Charges	20000
				Grand Total Amount	57500000

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019, PWD Electrical 2019-20,PRED 2012-13, SE-RDED approved Rate and Issused Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

6/12/19

Technical Sanction
Accorded For 4527 @ Lakh only
Head of A/C 83748
CER NO : 259 Dt 6.12.2019

JA

AE (Y&K)

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